

BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work:- Improvements to Concrete roads at Ravindra Nagar in ward 13 shettyhalli Sub division

Comparative Statement

Name Of Work:- Improvements to Concrete roads at Ravindra Nagar in ward 10 Shastynagar													
Comparative Statement													
Item No.	Description of Item	Unit	As Per Approved Sanction schedule-B			As Per Modified Estimate			Excess		Savings		REMARKS
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Qty	Amount	
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (PWD,SZB,SR,2018-19. Pg No-140, I. No-18.47)	Cum	564.98	1048.00	592100.87	390.00	1048.00	408720.00			174.98	183380.87	
2	KSRRB 300-2. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 143, I.No.: 19.1)	Cum	294.30	152.00	44732.92	409.50	152.00	62244.00	115.20	17511.08			
3	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH - 100/ Chapter 1 (PW,P& I.WTD SR 2018-19, Pg No 16, Item No. 17.1 & 17	Cum	859.28	81.00	69601.46	799.50	81.00	64760.00			59.78	4841.46	
4	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge (Data Rate)	Sqm	64.80	2571.00	166600.80						64.80	166600.80	
5	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge (Data Rate)	Sqm	12.96	5960.00	77241.60						12.96	77241.60	
6	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (PWD SR 2018-19 P.No: 147, I.No.: 19.64)	Sqm	1884.15	7.00	13189.05	1300.00	7.00	9100.00			584.15	4089.05	

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			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Qty	Amount	
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2(PW,P& I/WD SR 2018-19,Page No-13 Item No-4.2)	Cum	110.30	6056.00	667955.60	156.00	6056.00	944736.00	45.70	276780.40			
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)(PW,P& I/WD SR 2018-19, Pg No 176, Item No. 22.6.1)	Cum	97.99	5732.00	561664.35	195.00	5732.00	1117740.00	97.01	556075.65			
9	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. - of size 450 x 200 x 400 mm (PWD SR 2018-19 P.No: 27, I.No.: 5.29.1)	No	911.78	525.00	478683.33						911.78	478683.33	
10	KSRRB M500- 4 Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018-19 P.No: 158, I.No.: 21.5)	Sqm	1230.90	48.00	59083.20	105.00	48.00	5040.00			1125.90	54043.20	

Item No.	Description of Item	Unit	As Per Approved Sanction schedule-B			As Per Modified Estimate			Excess		Savings		REMARKS
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Qty	Amount	
11	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 100/120 TPH capacity H.M.P. with sensor paver Gr-1 (50 mm to 75mm) with 3.3 % VG-30 Bitumen (PWD SR 2018-19 P.No: 159, I.No.: 21.11.2)	Cum	61.55	8021.00	493652.45	5.25	8021.00	42111.00			56.30	451541.45	
12	KSRRB M500- 4 Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 0.90kg/sqmt over prepared surface with 5.5 bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour, HOM of machineries complete as per specifications.. MORTH Chapter 501 of MORTH V revision (PWD SR 2018-19 P.No: 158, I.No.: 21.5)	Sqm	1230.90	48.00	59083.20	1140.00	48.00	54720.00	-90.90	-4363.20			
13	KSRRB M500-19. Providing and laying bituminous concrete, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification clause No. 500.7 of MORTH Vrevision using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr -II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen (PWD SR 2018-19 P.No: 162, I.No.: 21.22.2)	Cum	36.93	11212.00	414025.52	45.60	11212.00	511268.00	8.67	97242.48			
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (PWD SR 2018-19 P.No: 182, I.No.: 24.5)	Sqm	92.32	490.00	45235.58	60.00	490.00	29400.00			32.32	15835.58	
15	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (PWD SR 2018-19 P.No: 180, I.No.: 24.1)	Sqm	184.64	90.00	16617.15						184.64	16617.15	

Item No.	Description of Item	Unit	As Per Sanction schedule-B				As Per Modified Estimate			Excess		Savings		REMARKS
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Qty	Amount		
Extra Items														
1	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (PWD SR 2018-19 P.No: 155, I.No.: 20.18)	Cum				60.40	2200.61	132917.00	60.40	132917.00				
2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (PWD SR 2018-19 P.No: 158, I.No.: 21.2)	Sqm				1200.00	5.83	6994.00	1200.00	6994.00				
Sub TOTAL					3759467.08	Sub TOTAL			3389748.00					
GST 12%					451136.05	GST 18%			610154.64					
Micelleneous						Micelleneous			27.74					
GrandTOTAL					4210603.13	GrandTOTAL			3999930.38	1083157.41		1452874.48		

Percentage Savings over Tender amount = $\{(4210603.12801333 - 3999930.38)/4\}$

5.0034 %

K. Sreekanth
Assistant Engineer
Ward No 13

K. Sreekanth
Assistant Executive Engineer
Shettyhalli Sub division

K. Sreekanth
Executive Engineer
Dasarahalli Division

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ಮುಖ್ಯ ಮಂತ್ರಿ
ವ್ಯಕ್ತ ಚಿಂತನಾ ಮಹಾಸಭೆ
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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:- Improvements to Concrete roads at Ravindra Nagar in ward 13 shettyhalli Sub division

EXTRA ITEMS RATE LIST										
Sl. No	Item of Work	Unit	Aproximate Qty	Rate	Amount	Where the items are alternative to items in Estimate. Whether they are additional items in live of some items in the estimate. Such items should be mentioned.	Whether Extra item is included in the sanctioned estimate	How the extra cost of the item is proposed to be met	Whether the extra item is included in the schedule of rates of the div if so reference to this item of schedule to be given. If not data sheets should accompany	Remarks
EXTRA ITEMS OPERATED AS PER SITE REQUIREMENT AND INSTRUCTIONS OF										
1	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (PWD SR 2018-19 P.No: 155, I.No.: 20.18)	Cum	60.40	2200.61	132917.00	Additional item	- No -	Out of Savings in the Estimate Cost	RA Enclosed	(PWD SR 2018-19 P.No.: 155, I.No.: 20.18)+ Tender Premium 9.96%
2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, H.O.M of machineries complete as per specifications. MORTH specification clause 501 (PWD SR 2018-19 P.No. 158, I.No.: 21.2)	Sqm	1200.00	5.83	6994.00	Additional item	- No -	Out of Savings in the Estimate Cost	RA Enclosed	(PWD SR 2018-19 P.No.: 158, I.No.: 21.2)+ Tender Premium 9.96%
Miscellaneous										
EXTRA ITEMS TOTAL:					139911.00					

K. K. K. K. K.
Asst Engineer
ward 13

K. K. K. K. K.
Assistant Executive Engineer

K. K. K. K. K.
Executive Engineer

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